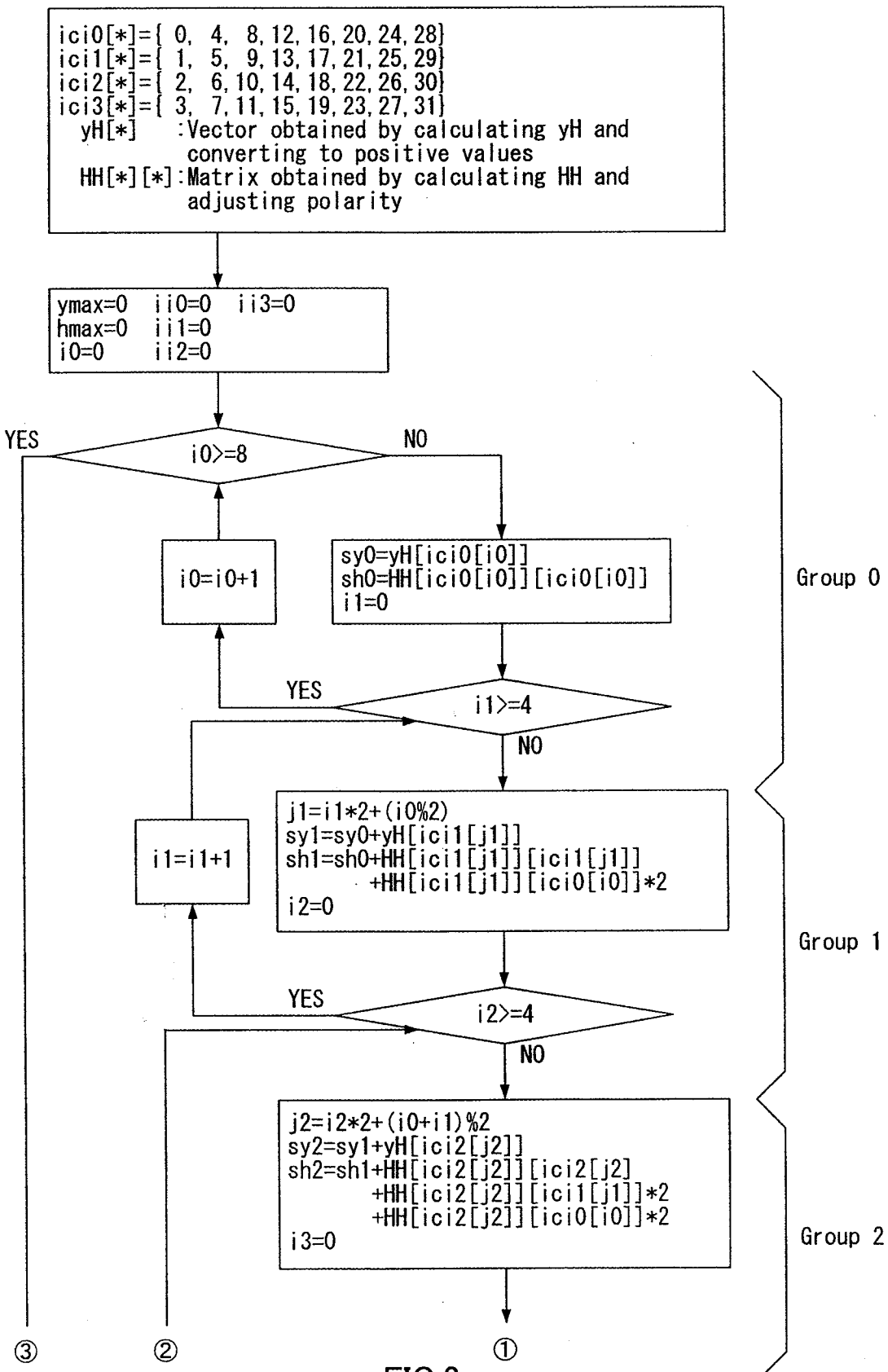
ici0[*]={ 0, 4, 8,12,16,20,24,28}
ici1[*]={ 1, 5, 9,13,17,21,25,29}
ici2[*]={ 2, 6,10,14,18,22,26,30}
ici3[*]={ 3, 7,11,15,19,23,27,31}
yH[*] :Vector obtained by calculating yH and converting to positive values
HH[*][*]:Matrix obtained by calculating HH and adjusting polarity
ymax=0 ii0=0 ii3=0
hmax=0 ii1=0
i0=0 ii2=0
YES
i0>=8
NO
i0=i0+1
sy0=yH[ici0[i0]]
sh0=HH[ici0[i0]][ici0[i0]]
i1=0
YES
i1>=4
NO
i1=i1+1
j1=i1*2+(i0%2)
sy1=sy0+yH[ici1[j1]]
sh1=sh0+HH[ici1[j1]][ici1[j1]]
+HH[ici1[j1]][ici0[i0]]*2
i2=0
YES
i2>=4
NO
j2=i2*2+(i0+i1)%2
sy2=sy1+yH[ici2[j2]]
sh2=sh1+HH[ici2[j2]][ici2[j2]
+HH[ici2[j2]][ici1[j1]]*2
+HH[ici2[j2]][ici0[i0]]*2
i3=0
Group 0
Group 1
Group 2
③
②
①

FIG.2

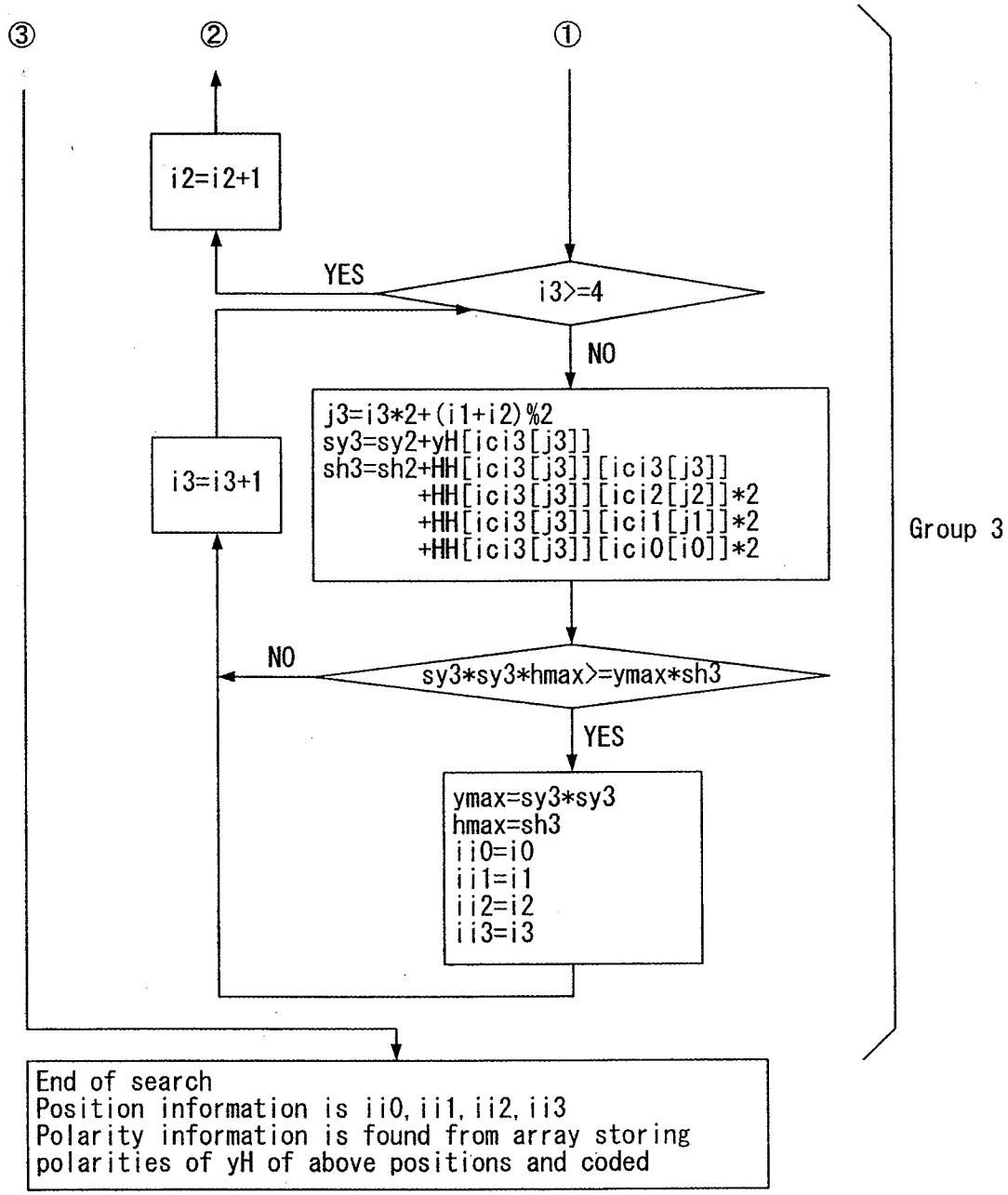
③
②
①
i2=i2+1
YES
i3>=4
NO
j3=i3*2+(i1+i2)%2
sy3=sy2+yH[ici3[j3]]
sh3=sh2+HH[ici3[j3]][ici3[j3]]
+HH[ici3[j3]][ici2[j2]]*2
+HH[ici3[j3]][ici1[j1]]*2
+HH[ici3[j3]][ici0[i0]]*2
i3=i3+1
NO
sy3*sy3*hmax>=ymax*sh3
YES
ymax=sy3*sy3
hmax=sh3
ii0=i0
ii1=i1
ii2=i2
ii3=i3
Group 3
End of search
Position information is ii0, ii1, ii2, ii3
Polarity information is found from array storing
polarities of yH of above positions and coded

FIG.3

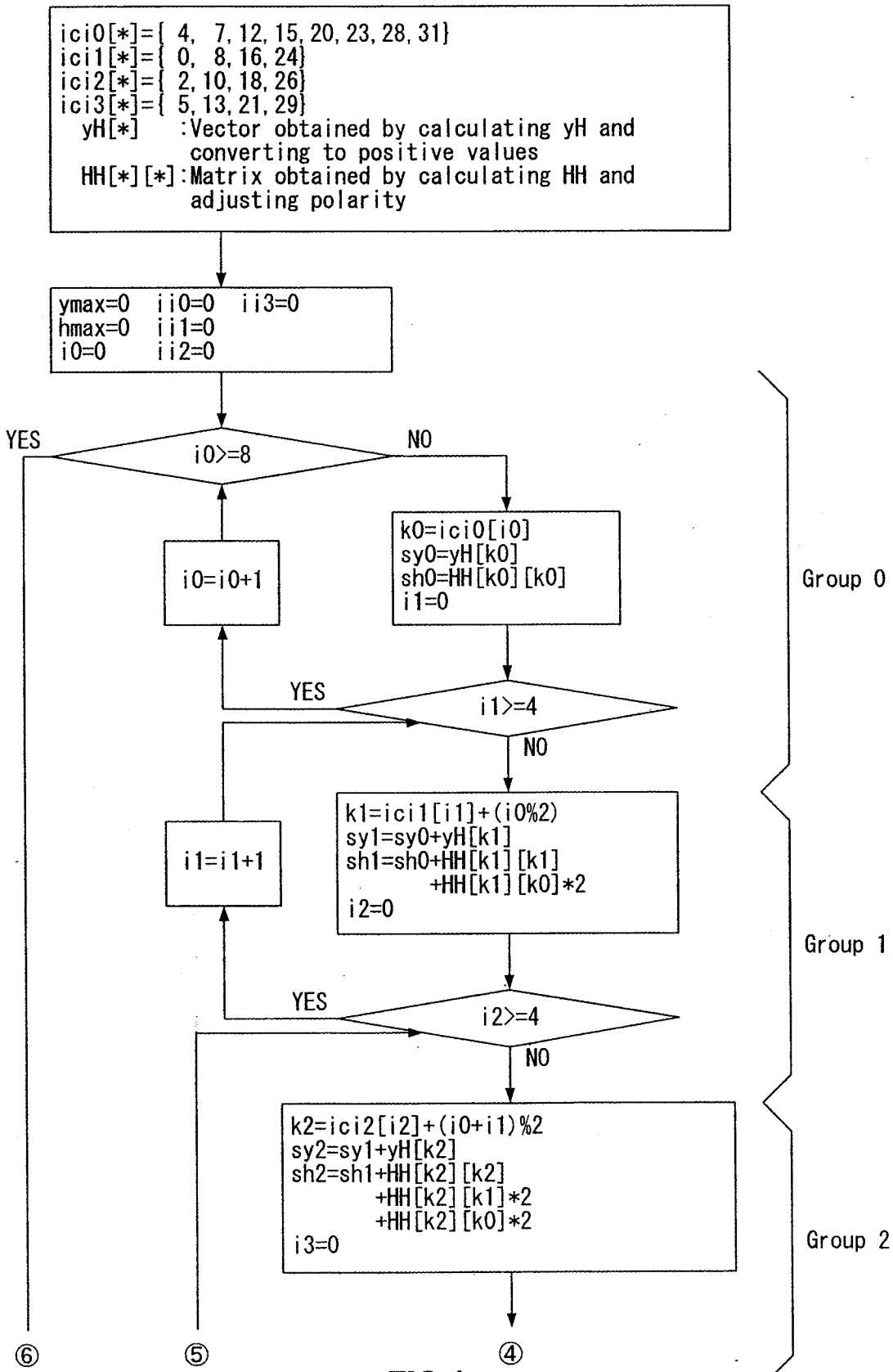
ici0[*]={ 4, 7, 12, 15, 20, 23, 28, 31}
ici1[*]={ 0, 8, 16, 24}
ici2[*]={ 2, 10, 18, 26}
ici3[*]={ 5, 13, 21, 29}
yH[*] :Vector obtained by calculating yH and converting to positive values
HH[*][*]:Matrix obtained by calculating HH and adjusting polarity
ymax=0 ii0=0 ii3=0
hmax=0 ii1=0
i0=0 ii2=0
YES
i0>=8
NO
i0=i0+1
k0=ici0[i0]
sy0=yH[k0]
sh0=HH[k0][k0]
i1=0
YES
i1>=4
NO
i1=i1+1
k1=ici1[i1]+(i0%2)
sy1=sy0+yH[k1]
sh1=sh0+HH[k1][k1]
+HH[k1][k0]*2
i2=0
YES
i2>=4
NO
k2=ici2[i2]+(i0+i1)%2
sy2=sy1+yH[k2]
sh2=sh1+HH[k2][k2]
+HH[k2][k1]*2
+HH[k2][k0]*2
i3=0
Group 0
Group 1
Group 2
⑥
⑤
④

FIG.4

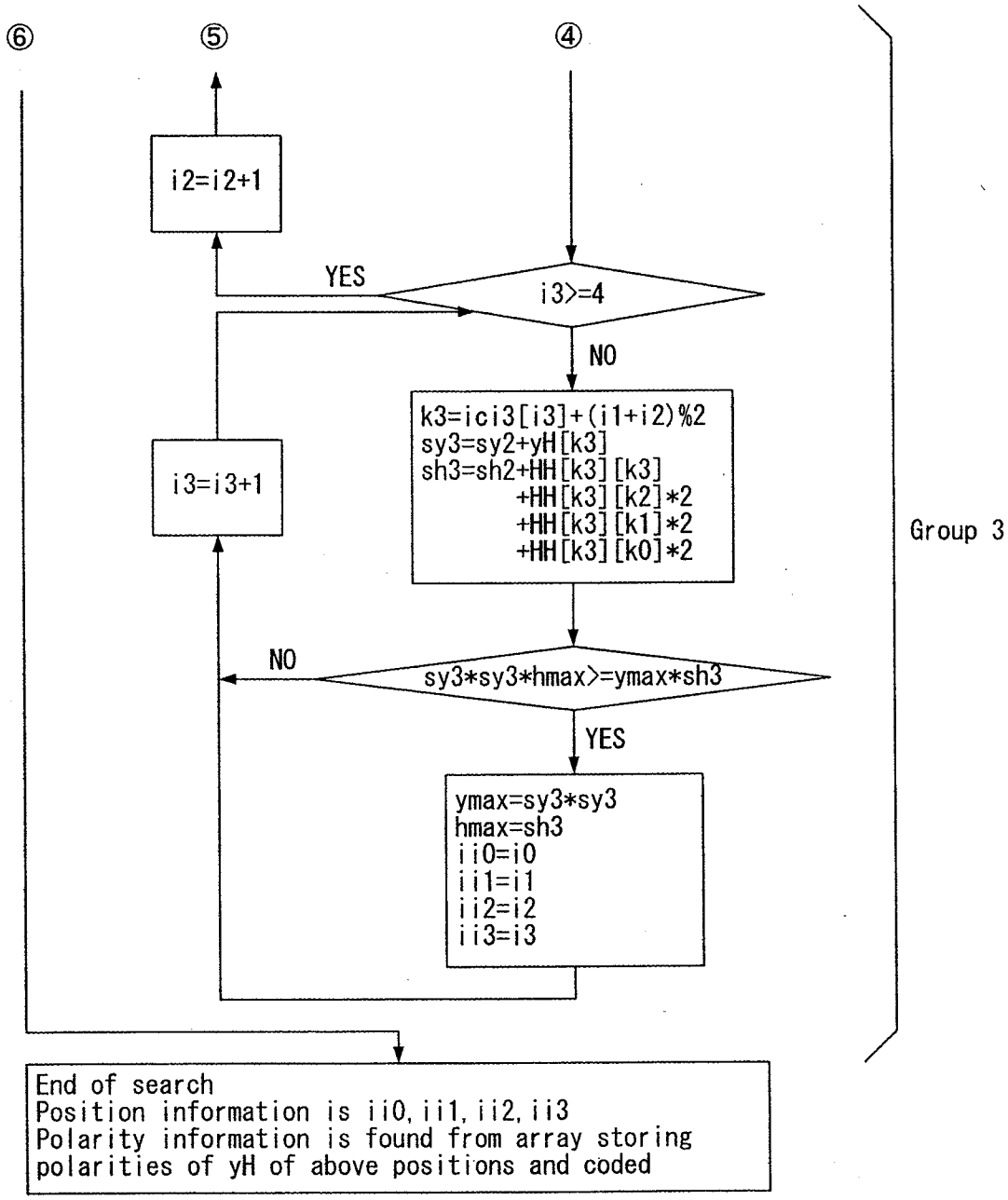
⑥
⑤
④
i2=i2+1
YES
i3>=4
NO
k3=ici3[i3]+(i1+i2)%2
sy3=sy2+yH[k3]
sh3=sh2+HH[k3][k3]
+HH[k3][k2]*2
+HH[k3][k1]*2
+HH[k3][k0]*2
i3=i3+1
NO
sy3*sy3*hmax>=ymax*sh3
YES
ymax=sy3*sy3
hmax=sh3
ii0=i0
ii1=i1
ii2=i2
ii3=i3
Group 3
End of search
Position information is ii0, ii1, ii2, ii3
Polarity information is found from array storing
polarities of yH of above positions and coded

FIG.5